Sea Technology Index
Volume 28, 1987

This instant reference index of technical subjects and news and special features from Volume 28 (1987) of *Sea Technology* magazine provides information about subjects (part one) and feature article authors (part two). Numbers following entries indicate issue month/page number.

Part One
SUBJECT INDEX

A

A-frame applications (article) 7/19
Abel, Dr. Robert B. (personality profile) 12/28
Acoustic tomography (article) 1/53
Acoustics,
  EDO Western company profile 3/35
  deep ocean exploration (article) 1/53
  under arctic ice canopy (article) 7/22
Advanced Very High Resolution Radiometer (AVHRR) 1/35
Aerostats, Coast Guard contract awarded 10/56
Air cushion vehicles, contract (article) 8/49
Alaska coastal plain, leasing recommended 5/9
America's Cup, ... 11/67
  Navy concerned about San Diego security
Anderson, Peter W., EPA monitoring ship (article) 4/39
Antarctic ozone depletion study 11/72
Antarctic lake, climate change indicator 10/63
Antifoulants, alternative techniques (article) 10/37
Antifouling, marine, guayule resin 7/58
Antisubmarine warfare,
  arctic interest grows 12/65
  arctic underwater acoustics (article) 7/22
  bathythermograph's role in (article) 11/19
  budgets showing fiscal health (article) 11/10
  Caesar/SOSUS system 11/10
  first CV-Helo helicopter 5/45
  gallium arsenide applications (article) 10/26
  Japanese version of Seahawk helicopter 3/46
  new challenges (editorial) 11/7
  P-3 Update IV contract 9/49
  Raytheon Submarine Signal Division role (profile) 11/47
  recruiting engineers for (article) 10/31
  R&D focus (article) 1/30
  RDT&E funding (table) 2/32
  Soviets narrowing lead 5/45
  supercomputers as signal processors (article) 11/35
  VHSIC improves signal processor 7/53
Aquaculture, Japanese develop cultivation system 11/9
"Aquarius," NOAA's new undersea habitat (article) 8/15
Arctic environment, Navy research (article) 5/23
Arctic ice edge study (NOAA) 10/65
Arctic oceanography, U.S. interest grows 12/65
Aries tourist submersible (article) 12/19
Auguste Piccard, first tourist submersible (article) 12/33
Automated Surface Observation System (ASOS) 1/12
Autonomous underwater vehicles,
  sidescan sonar system (article) 3/31
  symposium (article) 8/41
AVHRR 1/35

B

Bathymetry, airborne electromagnetic (article) 2/16
Bathyscan survey & mapping system (article) 11/29
Bathythermography, 50-year history (article) 11/19
Beebe Project, shark studies (article) 12/10
Biofouling,
  copper-nickel alloys use (article) 6/43
  research on bacteria 4/53
Bluefish, no health threat 9/9
Bowditch, USNS, damaged and retired 6/69
Budgets, ocean,
  ASW showing fiscal health (article) 11/10
  FY 88 allocations (article) 2/30
  FY 88 for NOAA (article) 3/21
  NOAA FY 88 request analyzed (article) 5/17
USCG FY 88 authorized by House committee 7/48
Bullshoot season, begins (soapbox) 9/73
Buoys,
  monitoring sea conditions (article) 10/15
  nuclear radiation measuring 1/61
  semisubmersible platform, application (article) 4/33

C

Cable & Connector Workshop (conference report) 6/47
Cables,
  electromechanical, high-impact (article) 7/29
  new sheave block (article) 7/14
California offshore leasing moratorium (soapbox) 4/73
Calio, Anthony J., leaving NOAA for industry 9/9
Canadian ocean policy announced 12/56
CES (Committee on Earth Sciences), established 7/47
Clark, Dr. Eugenie, shark study (Beebe Project) 12/12
Clean Air Act,
  changes (H.R.2521) introduced in House 7/49
Clean Water Act, hearings on changes 12/44
Climatology,
  annual winter weather forecast 1/77
  antarctic lake is indicator 10/63
  monsoon system's influence studied 10/64
  U.S. scientists aboard Soviet R/V 6/59
  U.S.-Soviet cooperation agreed 12/9
Coast Guard,
  awards aerostat contract 10/56
  FY 88 authorization voted by House committee 7/48
  marine safety data computerized 8/68
  mariner licensing revisions 12/45
Coastal engineering research (soapbox) 12/69
Coastal erosion, causes outlined 7/59
Coastal Resources Restoration Act (H.R.3411) 12/44
Coastal Zone Color Scanner (CZCS) 1/34
Collision avoidance simulator, ship 1/62
Commercial diving, market analysis (article) 1/20
Committee on Earth Sciences (CES), established 7/47
Communications,
  new single sideband diver phone 5/47
  satellite, speech compression system 5/47
Communications systems,
  diving (article) 5/10
  research vessel (article) 5/14
Company profiles,
  Datasonics Inc. 9/31
  EDO Western 3/35
  GECO A.S. 1/46
  D.G. O'Brien 2/23
  Oceaneering International Inc. 12/29
  Raytheon Submarine Signal Division 11/47
Computers,
  for tide prediction (article) 5/33
  pocket-size developed 2/55
  portable hard disk developed 5/48
  software for marine search & rescue 3/50
Concrete, offshore construction use (article) 4/35
Conference previews,
  Intervention '87 ..... 2/35
  Oceans '87 ..... 8/51
  OTC '87 ..... 4/32
  SEG '87 ..... 9/29
  Under Seas Defense '87 ..... 10/25
Conference reports,
  Cable & Connector Workshop 6/47
  NOIA meeting 5/39
  Oceans '87 ..... 11/53
  OTC '87 ..... 6/54
  SEG '86 ..... 1/50
Conoco TWLP, template set in Gulf of Mexico 8/62
COOP program,
  instruments for minesweeping (article) 10/41
Corrosion resistance, copper-nickel alloys (article) 6/43
Cranes & winches, applications (article) 7/19
Craven, Dr. John P. (personality profile) 6/42

D

D.G. O'Brien (company profile) 2/23
Data storage, static RAM (article) 2/44
Datasonics Inc. (company profile) 9/31
Deep sea survey & mapping systems (article) 11/29
Defense Mapping Agency, new director named 12/9
Discoverer,
  to replace NavOceano's *Bowditch* 8/9
  communications systems (article) 5/14
Diving,
  communications systems (article) 5/10
  French experiments with hydrox (article) 9/35
  market analysis (article) 1/20
  NavSea approves underwater tools 1/60
  North Sea use survey (article) 1/45
  single sideband communications 5/47
  wrist computer 2/54
Dolphins, monitoring study 3/53
Dredging, Corps of Engineers forecast (article) 1/26
Drilling, Alaska coastal plain 1/56

E

Earle, Dr. Sylvia A. (personality profile) 2/38
Earth System Sciences Committee (editorial) 1/7
EDO Western (company profile) 3/35
Education, U.S. students needed
  for graduate studies (soapbox) 8/89
Edwin Link (new), used in Beebe Project 12/10
Edwin Link, retired by Harbor Branch 3/9
El Nino, NOAA issues advisory 3/60

Sea Technology Index
Volume 28, 1987

This instant reference index of technical subjects and news and special features from Volume 28 (1987) of *Sea Technology* magazine provides information about subjects (part one) and feature article authors (part two). Numbers following entries indicate issue month/page number.

Part One
SUBJECT INDEX

A

A-frame applications (article) 7/19
Abel, Dr. Robert B. (personality profile) 12/28
Acoustic tomography (article) 1/53
Acoustics,
  EDO Western company profile 3/35
  deep ocean exploration (article) 1/53
  under arctic ice canopy (article) 7/22
Advanced Very High Resolution Radiometer (AVHRR) 1/35
Aerostats, Coast Guard contract awarded 10/56
Air cushion vehicles, contract (article) 8/49
Alaska coastal plain, leasing recommended 5/9
America's Cup, ... 11/67
  Navy concerned about San Diego security
Anderson, Peter W., EPA monitoring ship (article) 4/39
Antarctic ozone depletion study 11/72
Antarctic lake, climate change indicator 10/63
Antifoulants, alternative techniques (article) 10/37
Antifouling, marine, guayule resin 7/58
Antisubmarine warfare,
  arctic interest grows 12/65
  arctic underwater acoustics (article) 7/22
  bathythermograph's role in (article) 11/19
  budgets showing fiscal health (article) 11/10
  Caesar/SOSUS system 11/10
  first CV-Helo helicopter 5/45
  gallium arsenide applications (article) 10/26
  Japanese version of Seahawk helicopter 3/46
  new challenges (editorial) 11/7
  P-3 Update IV contract 9/49
  Raytheon Submarine Signal Division role (profile) 11/47
  recruiting engineers for (article) 10/31
  R&D focus (article) 1/30
  RDT&E funding (table) 2/32
  Soviets narrowing lead 5/45
  supercomputers as signal processors (article) 11/35
  VHSIC improves signal processor 7/53
Aquaculture, Japanese develop cultivation system 11/9
"Aquarius," NOAA's new undersea habitat (article) 8/15
Arctic environment, Navy research (article) 5/23
Arctic ice edge study (NOAA) 10/65
Arctic oceanography, U.S. interest grows 12/65
Aries tourist submersible (article) 12/19
Auguste Piccard, first tourist submersible (article) 12/33
Automated Surface Observation System (ASOS) 1/12
Autonomous underwater vehicles,
  sidescan sonar system (article) 3/31
  symposium (article) 8/41
AVHRR 1/35

B

Bathymetry, airborne electromagnetic (article) 2/16
Bathyscan survey & mapping system (article) 11/29
Bathythermography, 50-year history (article) 11/19
Beebe Project, shark studies (article) 12/10
Biofouling,
  copper-nickel alloys use (article) 6/43
  research on bacteria 4/53
Bluefish, no health threat 9/9
Bowditch, USNS, damaged and retired 6/69
Budgets, ocean,
  ASW showing fiscal health (article) 11/10
  FY 88 allocations (article) 2/30
  FY 88 for NOAA (article) 3/21
  NOAA FY 88 request analyzed (article) 5/17
USCG FY 88 authorized by House committee 7/48
Bullshoot season, begins (soapbox) 9/73
Buoys,
  monitoring sea conditions (article) 10/15
  nuclear radiation measuring 1/61
  semisubmersible platform, application (article) 4/33

C

Cable & Connector Workshop (conference report) 6/47
Cables,
  electromechanical, high-impact (article) 7/29
  new sheave block (article) 7/14
California offshore leasing moratorium (soapbox) 4/73
Calio, Anthony J., leaving NOAA for industry 9/9
Canadian ocean policy announced 12/56
CES (Committee on Earth Sciences), established 7/47
Clark, Dr. Eugenie, shark study (Beebe Project) 12/12
Clean Air Act,
  changes (H.R.2521) introduced in House 7/49
Clean Water Act, hearings on changes 12/44
Climatology,
  annual winter weather forecast 1/77
  antarctic lake is indicator 10/63
  monsoon system's influence studied 10/64
  U.S. scientists aboard Soviet R/V 6/59
  U.S.-Soviet cooperation agreed 12/9
Coast Guard,
  awards aerostat contract 10/56
  FY 88 authorization voted by House committee 7/48
  marine safety data computerized 8/68
  mariner licensing revisions 12/45
Coastal engineering research (soapbox) 12/69
Coastal erosion, causes outlined 7/59
Coastal Resources Restoration Act (H.R.3411) 12/44
Coastal Zone Color Scanner (CZCS) 1/34
Collision avoidance simulator, ship 1/62
Commercial diving, market analysis (article) 1/20
Committee on Earth Sciences (CES), established 7/47
Communications,
  new single sideband diver phone 5/47
  satellite, speech compression system 5/47
Communications systems,
  diving (article) 5/10
  research vessel (article) 5/14
Company profiles,
  Datasonics Inc. 9/31
  EDO Western 3/35
  GECO A.S. 1/46
  D.G. O'Brien 2/23
  Oceaneering International Inc. 12/29
  Raytheon Submarine Signal Division 11/47
Computers,
  for tide prediction (article) 5/33
  pocket-size developed 2/55
  portable hard disk developed 5/48
  software for marine search & rescue 3/50
Concrete, offshore construction use (article) 4/35
Conference previews,
  Intervention '87 ..... 2/35
  Oceans '87 ..... 8/51
  OTC '87 ..... 4/32
  SEG '87 ..... 9/29
  Under Seas Defense '87 ..... 10/25
Conference reports,
  Cable & Connector Workshop 6/47
  NOIA meeting 5/39
  Oceans '87 ..... 11/53
  OTC '87 ..... 6/54
  SEG '86 ..... 1/50
Conoco TWLP, template set in Gulf of Mexico 8/62
COOP program,
  instruments for minesweeping (article) 10/41
Corrosion resistance, copper-nickel alloys (article) 6/43
Cranes & winches, applications (article) 7/19
Craven, Dr. John P. (personality profile) 6/42

D

D.G. O'Brien (company profile) 2/23
Data storage, static RAM (article) 2/44
Datasonics Inc. (company profile) 9/31
Deep sea survey & mapping systems (article) 11/29
Defense Mapping Agency, new director named 12/9
Discoverer,
  to replace NavOceano's *Bowditch* 8/9
  communications systems (article) 5/14
Diving,
  communications systems (article) 5/10
  French experiments with hydrox (article) 9/35
  market analysis (article) 1/20
  NavSea approves underwater tools 1/60
  North Sea use survey (article) 1/45
  single sideband communications 5/47
  wrist computer 2/54
Dolphins, monitoring study 3/53
Dredging, Corps of Engineers forecast (article) 1/26
Drilling, Alaska coastal plain 1/56

E

Earle, Dr. Sylvia A. (personality profile) 2/38
Earth System Sciences Committee (editorial) 1/7
EDO Western (company profile) 3/35
Education, U.S. students needed
  for graduate studies (soapbox) 8/89
Edwin Link (new), used in Beebe Project 12/10
Edwin Link, retired by Harbor Branch 3/9
El Nino, NOAA issues advisory 3/60

El Nino 1/12, 1/35, 7/17
Electromechanical cables, high-impact (article) 7/29
Electronic charts,
need to broadcast data (article) 3/27
update via satellite (article) 3/17
Electronics, market forecast 12/51
Endangered species, U.S./China agreement 1/56
Energy resources, EEZ 6/16
Equatorial Pacific Ocean Climate Study 1/13, 7/17
(EPOCS)
ERS-1 satellite contract signed 1/61
Exclusive Economic Zone (EEZ),
challenge of exploring & developing (soapbox) 6/73
east coast seafloor mapping begins 3/9
energy resources 6/16
exploration targets (article) 6/13
GLORIA mapping program report (article) 8/36
marine protein resources 6/15
mineral resources 6/13
mining policies 1/22
ocean engineering's critical role (article) 6/11
OTEC resources 6/19
resource development timetable (article) 6/36
seafloor mapping security issues (editorial) 8/7
USGS discovers minerals off California 1/9
waste assimilation 6/21

F

FCCSET, Committee on Earth Sciences established ... 7/47
Federal ocean budgets,
FY 88 for NOAA (article) 3/21
FY 88 general (article) 2/30
Ferrocement,
offshore construction applications (article) 4/35
Fiber optics,
remote sensing application (article) 7/10
trans-Atlantic cable segment laid 10/61
underwater applications (article) 9/41
underwater network 1/63
Firing Line Report 1/33
Fish oil, standardized supply 3/41
Fisheries,
foreign fish-processing vessels (H.R.2598) 12/9
Japanese trade concessions 5/41
resource status 8/12
Fishing, commercial, safety bill (S.849) 10/46

G

GECO A.S (company profile) 1/46
Gemini tourist submersible (article) 12/19
Geophysical exploration,
GECO company profile 1/46
industry analysis (article) 9/19
new fiber optic seismic streamer (article) 9/10
Geosat 1/25
Geostar satellite, Inmarsat offers capacity 1/62
Global Change (editorial) 1/7
Global change, sea level measurement role (article) ... 11/39
Global observations (article) 1/10
Global ocean change, NOAA participation (article) ... 7/16
Global Ocean Ecosystem Dynamics (GOED) 12/7
Global Ocean Flux Study (GOFS) 1/26
Global Ocean Science Program (GOSP) 7/16
Global Ocean Science Program (GOSP) (editorial) 12/7
Global Positioning System,
alternative launch vehicles set 2/9
differential base station 1/62
launches rescheduled 11/70
role in absolute sea level measurement 11/39
24-satellite constellation considered 11/70
used to set Navy radar platforms 2/54
GLORIA,
EEZ mapping program report (article) 8/36
Gulf, Caribbean atlas released 12/54
sidescan sonar available commercially 3/49
survey & mapping system (article) 11/29
GOFS 1/26, 12/7
GOSP (Global Ocean Sciences Program) 7/16
Gravity meter, absolute 11/41
Great Lakes, submersible dives 6/9
Guayule resin, wood protectant 7/58

H

Habitats,
potential for undersea research (sidebar) 8/16
undersea, NOAA's "Aquarius" (article) 8/15
Hallgren, Dr. Richard E., to retire from NWS 5/61
Harbor Branch,
elects RAdm. J.B. Mooney Jr. to board 11/9
Hurricane names, 1987, proposed 7/69
Hydrographic bureau,
Nygren nominated to head (article) 3/42
Hydrographic surveys, remote vessel demonstrated ... 10/61

I

Iceberg, largest ever (Antarctica) 12/9
Icebreaker, new *Oden II* to carry U.S. navigation 11/70
Independence, for NOAA (soapbox) 7/73
Infrared imager 1/59
Inmarsat,
enters satellite navigation markets 9/53
Levesque to head SARSAT secretariat 8/9
to manage SARSAT 1/9
20th Coast Earth Station in Egypt 11/9
Inmarsat-2, satellite to be launched 10/62
Instrumentation, GOSP to generate new types 12/7
Integrated navigation system,
DP application (article) 7/43
Intervention '87 (ROV '87) (conference preview) 2/35
Intruder, harbor surveillance sonars (article) 12/23

J

Japan,
Commerce Dept. reduces seal, porpoise quotas 7/48
fisheries trade concessions 5/41
import prohibition bills introduced 7/9
research hunting for whales 5/49
Johnson-Sea-Link II used in Beebe Project 12/11

L

Landsat 6, Wide Field Sensor (WiFS) 1/35
Laney Chouest is *Sea Cliff* support vessel 8/62
LCROVs,
definitions & markets (article) 2/10
research applications for Phantom (article) 2/28
Lehman, SecNav John F.,
final changes 6/52
resigns 3/9
Loch Ness Monster, subject of sonar exploration 9/9
Loggerhead turtles,
NOAA study of explosion effects 10/9
Low Cost ROVs (article) 2/10
Low Frequency Microwave Radiometer (LFMR) 2/7

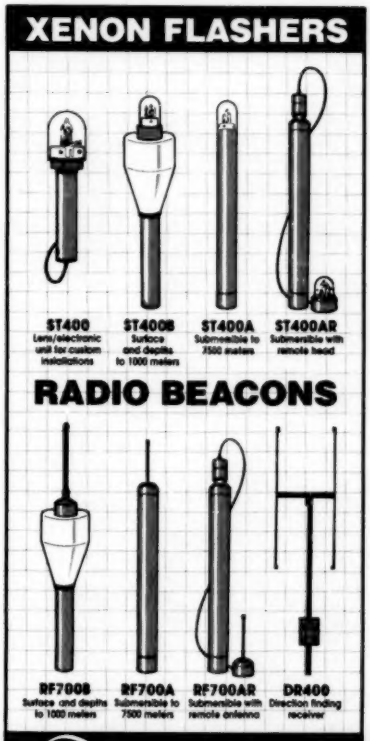
M

Manhattan supertanker, to be scrapped 10/9
Mapping,
underwater, sweep survey system (article) 10/29
MarAd, new chief counsel named 2/49
Marine coatings,
Navy perspective on TBT use (soapbox) 3/69
Marine exploration, center for Woods Hole 4/53
Marine policy commissions bills
(S.562 & H.R. 1171) 4/43
Marine protein resources, EEZ 6/15
Marine safety data, Coast Guard computerizes 8/68
Marine sanctuaries, NOAA proposes Cordell Bank .. 11/58
Marine snow 5/49
Marine Technology Society,
diversification (article) 1/24
Elrod replaces Palmer 7/9
moves to ASME offices 10/9
Mariner licensing revisions announced by USCG 12/45
Martell, VAdm. Charles B., ASW Czar (article) 11/10
Maryland, pollution programs (article) 10/19
Methane, concentrating in atmosphere 9/58
Mine countermeasures,
coping with "smarter" mines (soapbox) 11/89
intruder sonar (article) 12/23
ship equipment (article) 4/24
ship to be built 7/50
Mine detection 4/24
Mine neutralization systems 4/24
Mineral resources, EEZ 6/13
Minerals Management Service (MMS) 1/27
Minesweeping,
COOP program & instrumentation (article) 10/41
Navy commissions first of new Avenger class 11/67
sidescan sonar application (article) 11/56
Mining (ocean),
OTA report 9/45
resource status 8/10
Miss Wendy, used in Beebe Project 12/10
MIZEX, NSF programs update 10/33
Monitor,
artifacts to get new home 2/9
commemoration plans 2/9
Navy/NOAA '87 expedition completed 7/9
1987 expedition report (article) 8/30
preservation project, museum selected (article) 4/29
Monitoring instruments for water quality (article) 10/10
Mooney, RAdm. J.B. "Brad", Jr.,
elected to Harbor Branch board 11/9
interview 8/23
Munk, Dr. Walter H. (personality profile) 8/40
Mussels, methane food for 6/57

N

NACOA,
achievements (soapbox) 1/81
final report analyzed (article) 5/27
National Ocean Policy Commission bill
(H.R. 1171) passes House 11/57
National Ocean Policy Commissions proposed 6/9
National Ocean Industries Association (NOIA) 1/19
National Science Foundation,
programs analysis (article) 1/25
Naval Ocean Research
& Development Activity (article) 1/30
Navy,
ASW aircraft, P-3 Update IV contract 9/49
ASW funding for RDT&E (table) 2/32
ASW R&D focus (article) 1/30
automated weather system 1/60
commissions first of new Avenger class 11/67
concerned about America's Cup
security in San Diego 11/67
Discoverer to replace *Bowditch*
for mapping surveys 8/9
EEZ mapping security issues (editorial) 8/7
FY 88 budget allocations (article) 2/30
international oceanography (article) 1/32
involved in 1987 *Monitor* expedition (article) 8/30
mine countermeasures ship to be built 7/50
navigation/maneuvering simulator 4/49
NORDA ASW activities (article) 1/30
NORDA technical director named 10/57
NROSS cancellation (editorial) 2/7
NROSS salvaged by Lehman 5/9

(Continued on page 42)



CIRCLE **NO. 26** ON INQUIRY CARD

ocean surveillance vessels 5/45
oceanography initiatives update (article) 1/14
Office of Naval Technology (ONT) 1/16
ONR meeting mutual objectives (article) 1/14
ONR ocean research (article) 8/23
ONR to lose both leaders 8/9
polar oceanography (article) 5/23
research funding (table) 2/32
Sea Cliff support vessel chosen 8/62
SecNav John F. Lehman resigns 3/9
SURTASS noise filter developed 7/51
underwater arctic acoustics, ASW (article) 7/22
VHSIC system demonstrated 5/45
Wagner, Capt. George, named assistant CNR 12/48
Wilson to succeed Mooney as CNR 9/9
Neutrinos, underwater detection 4/69
NEXRAD 1/12
Next Generation
Water Level Measurement System 11/39
NOAA,
arctic ice edge study 10/65
awards water level measurement system contract 9/53
Calio leaving for private industry job 9/9
Congressional support cited 12/44
Cordell Bank proposed as sanctuary 11/58
Discoverer to replace
Bowditch for mapping surveys 8/9
FY 88 budget hearings 4/43
FY 88 budget request analysis (article) 5/17
global observations (article) 1/10
Great Lakes submersible dives 6/9
Hallgren (NWS) to retire 5/61
independence bill (S.821) introduced 4/44
independence bill (soapbox) 7/73
loss of 'oceanic' in title (editorial) 3/7
methane concentration study 9/58
Monitor '87 expedition completed 7/9
newest undersea habitat readied (article) 8/15
next generation water level measurement (article) 5/29
participation in Global Ocean Change (article) 7/16
Peterson nominated as chief scientist 11/9
requires turtle excluder devices on shrimpers 8/73
Sea Grant review panel chairman named 12/9
Superfund suit settled 4/60
to study explosion effects on loggerhead turtles 10/9
warm water plume discovered 1/9
tsunami warning system 12/51
NOIA meeting, conference report 5/39
NORDA,
ASW R&D activities (article) 1/30
Mediterranean ocean front discovered (article) 1/51
new technical director named 10/57
NROSS,
cancellation (editorial) 2/7
cancellation jeopardizes research (soapbox) 2/73
program cancelled 1/9, 1/32
SecNav Lehman salvages 5/9
Nygren, RAdm. Harley D.,
nominated to head IHO (article) 3/42

O

Ocean,
business community survey (editorial) 4/7
disposal site monitoring (article) 4/39
heat transport study 10/66
instrument for studying large fish 4/54
mining, OTA report 9/45
NOAA support for research dropping (editorial) 3/7
pollution monitoring results 5/46
re-energize tech. logy (editorial) 5/7
resources status evaluated (article) 8/10
upwelling, acid rain aid 1/66
Ocean color imaging,
NASA report may revitalize 11/9
status (article) 1/34
Ocean Drilling Project,
first cores arrive at Texas A&M 3/9
Ocean engineering,
Allyn Vine comments 6/33
challenges (editorial) 6/7
critical role in EEZ (article) 6/11
current education programs (article) 6/37
deep water challenge (article) 1/28
education 6/34
exploration targets (article) 6/13
national plan (article) 6/41
NSF initiative (article) 6/38
oceanography "ground zero" (article) 6/23
power & propulsion needs (article) 6/29
Ocean front, Mediterranean Sea (article) 1/51
Ocean markets analysis (article) 1/33
Ocean minerals, USGS discovers off California 1/9
Ocean mining 4/61
Ocean mining (article) 1/27
Ocean monitoring, buoy developed (article) 10/15
Ocean policy,
Canada announces 12/56
Congressional activities roundup 4/43
Congressional issues analysis (article) 1/21
National Ocean Policy Commission 6/9
research & monitoring strategies (article) 1/37
Ocean pollution, plastics (soapbox) 10/81
Ocean programs in '88 elections (soapbox) 9/73
Ocean research,
deep-sea sediments in Indian Ocean 9/55
diving gas experiments (article) 9/35
heated seawater mass 1/66
ONR activities (article) 8/23
practice torpedo converted for (article) 12/37
Ocean research & monitoring strategies (article) 1/37
Ocean thermal energy conversion (OTEC),
cold water source 6/22
EEZ resources 6/19
NEHL/Hawaii experiment 6/20
Ocean Topography Experiment (TOPEX) 2/7
Oceans '87,
conference preview 8/51
conference report 11/53
Oceanographic fleet, ONR programs (article) 1/14
Oceaneering International Inc. (company profile) 12/29
Office of Naval Research,
ocean research activities (article) 8/23
to lose both leaders 8/9
Wagner named assistant 12/48
Offshore construction,
laminated ferrocement (article) 4/35
market analysis (article) 1/18
Offshore oil,
California leasing moratorium (soapbox) 4/73
deep water platforms (article) 1/16
fiber optic seismic streamer (article) 9/10
Oceaneering International (profile) 12/29
optimistic market analysis (article) 4/10
Placid Oil project (article) 4/19
platform salvage 1/57
prospects improving (editorial) 9/7
resource status 8/10
rig utilization 1/18
service industries outlook (article) 1/19
USGS estimate supply 6/9
Oil, Alaska coastal plain drilling recommended 1/56
Oil depletion allowance, blanket, proposed 4/9
Oil seeps, support sealife communities 10/9
Organotin (TBT),
alternative antifoulants (article) 10/37
banned in Maryland 4/59
hearings in Congress 8/61
legislation (H.R.2210) would restrict 7/62
Navy perspective (soapbox) 3/69
paint legislation (S.428) introduced 4/45, 7/62
symposium proceedings 1/61
OTC '87,
conference preview 4/32
conference report 6/54
OTEC, resource status 8/10
OTEC resources, EEZ 6/19
Oysters, disease-resistant 9/55
Ozone depletion, antarctic study 3/54

P

Particles, automated measurement (article) 2/26
Perry *PC-8* (article) 1/41
Personality profiles,
Dr. Robert B. Abel 12/28
Dr. John P. Craven 6/42
Dr. Sylvia A. Earle 2/38
Dr. Walter H. Munk 8/40
Peterson, Dr. Melvin N.A.,
nominated as NOAA chief scientist 11/9
Petroleum Research Institute proposed 9/45
Phantom LCROV,
research applications (article) 2/28
Pharmaceuticals from the sea,
Galapagos expedition 3/53
Pisces VI, used in shark studies (Beebe Project) 12/10
Placid Oil platform project (article) 4/19
Platform salvage, environmental impact 1/57
Polar Duke, communications systems (article) 5/14
Polar oceanography,
Navy programs (article) 5/23
NSF programs update (article) 10/33
Pollution,
air mass 1/61
air, SEAREX project to focus on Atlantic 7/62
credit projects 12/44
monitoring results 5/46
new Coast Guard requirements 3/60
ocean monitoring, *Peter W. Anderson* (article) 4/39
plastics in ocean (soapbox) 10/81
reducing from chemical tankships 5/46
Pollution, high levels on Chesapeake Bay surface 11/74
Pollution programs, Maryland's progress (article) 10/19
Positioning & navigation,
GPS launches rescheduled 11/70
Inmarsat's satellite navigation proposal 9/53
Monitor 1987 expedition (article) 8, 30
new icebreaker to carry U.S. systems 11/70
Placid Oil project (article) 4/19
radar shows bearings, Loran-C waypoints 7/53
satellite updates of electronic charts 3/17
search for *Jack Jr.* (article) 3/10
"smart" integrated system (article) 7/43
Transit reaches age 20 ..... 8/64
24-satellite GPS constellation sought 11/70

R

R&D expenditures, total for "Top 100" companies 7/9
Raytheon Submarine Signal Division
(company profile) 11/47
Recruiting, ASW engineers (article) 10/31
Red drum fishery, banned in Gulf of Mexico 2/49
Remote manipulators,
developed at Harbor Branch (article) 2/39
Remote sensing, fiber optics application (article) 7/10
Research, ONR meeting mutual objectives (article) 1/14
Research vessel communications (article) 5/14
Resources, marine, status evaluated (article) 8/10
Revelle, Dr. Roger, international award given 2/69
Rona, Dr. Peter A.,
receives Commerce Gold Medal 12/9
ROVs,
dedicated vehicle for platform cleaning 12/46
North Sea use survey 1/45
remote manipulator developed (article) 2/39
video graphics replace instruments 4/51
work vehicle for full ocean depths (article) 9/23

S

SARSAT,
experiment planned for GOES-7 ..... 5/46
Inmarsat to manage 1/9
Levesque to head Inmarsat SARSAT secretariat 8/9
Satellites,
AVHRR 1/34
Coastal Zone Color Scanner 1/34
ERS-1 contract signed 1/61
Geostar offered capacity on Inmarsat 1/62
GPS differential base station 1/62
NOAA programs 1/11
NROSS program cancelled 1/9
ocean color imaging (article) 1/34
private satellite systems, NOAA review 8/60
provide new data on whales 11/73
Transit reaches age 20 ..... 8/64
Satellite communications,
speech compression system 5/47
Satellite oceanography, support needed (soapbox) 5/65
Scripps, NASA commercial space center proposed 5/40
Sea Beam,
applications (article) 3/37
survey system, deep sea (article) 11/29
Sea Cliff submersible, new support vessel chosen 8/62
Sea Grant,
authorization (S.1196) goes to Senate floor 8/60
reauthorization bill 6/51
reauthorization (H.R.3017) passes House 11/57
review panel chairman named 12/9
status 1/22
strategic marine research proposal 5/17
Sea ice, Navy research (article) 5/23
Sea level measurement network, absolute (article) 11/39
Seabed exploration needs (article) 6/23
Seafloor venting, research 2/58
SeaMARC survey & mapping system (article) 11/29
SEAREX (SEa-AiR EXchange)
project to focus on Atlantic 7/62
SEG '86,
conference report 1/50

SEG '87,
conference preview 9/29
Seward Johnson, communications systems (article) 5/14
Shark research 2/58
Shark studies (article) 12/10
Sheave block, design (article) 7/14
Shipbuilders note last merchant ship launch 12/45
Shipping,
foreign trade practices legislation 5/41
opposition to Canadian maritime proposals 10/46
U.S.-Canada Free Trade negotiations 9/46
Shipwrecks, OTA report 11/57
Sidescan sonar,
aids AUVs (article) 3/31
minesweeping application (article) 11/56
Sea Beam ocean mapping (article) 3/37
search application (article) 3/10
systems (article) 11/29
Signal processing,
ASW, supercomputer role (article) 11/35
gallium arsenide for ASW applications (article) 10/26
Signal processor, VHSIC improves for ASW 7/53
Simulator,
bridge navigation (Canadian) 8/68
navigation/maneuvering, Navy 4/49
ship collision avoidance 1/62
ship maneuvering 6/51
Trident II launches 9/50
Sixgill shark (Beebe Project) 12/11
Soapbox,
access to federal offshore lands 4/73
challenge of EEZ exploration, development 6/73
coastal engineering research needs 12/69
countering "smarter" mines 11/89
independence for NOAA 7/73
NACOA achievements 1/81
NROSS cancellations 2/73
ocean programs in '88 elections 9/73
plastic ocean pollution 10/81
satellite oceanography support needed 5/65
TBT paint, Navy perspective 3/69
U.S. students needed for graduate studies 8/89
Software, new word processing aid 7/53
Software for computing wave forces 6/58
Sonar,
GLORIA available commercially 3/49
intruder & harbor surveillance (article) 12/23
mine countermeasures equipment (article) 4/24
sidescan for AUVs (TOAS) (article) 3/31
sidescan, Sea Beam ocean mapping (article) 3/37
sidescan, search application (article) 3/10
Space Grant College Program, proposed 7/69
Speech compression system, satellite 5/47
Submersibles,
applications survey (table) 12/34
high accuracy tracker developed 11/71
PC-8 (article) 1/41
Supercomputers, role in ASW processing (article) 11/35
Superconductivity,
explosive growth (editorial) 7/7
in classroom 9/69
initiative 9/9
U.S. research strategy proposed 11/60
Superconductors,
high temperature material found 2/9
higher temperature materials 4/9
Survey & mapping systems, deep sea (article) 11/29
Survey system,
sweep, for underwater mapping (article) 10/29
Swath bathymetry (article) 11/29

T

T-AGOS, new vessels contract 5/45
Tactical Environmental Support System (TESS) 1/32
TBT,
alternative antifoulants research (article) 10/37
banned in Maryland 4/59
hearings in Congress 8/61
legislation (H.R.2210) would restrict use 7/62
paint additive, Navy perspective (soapbox) 3/69
paint legislation (S.428) introduced 4/45, 7/62
Tide level system, automated (U.K.) 4/52
Tide gauge, computer interface 3/49
Tides,
absolute sea level measurement system (article) 11/39
computer prediction system (article) 5/33
data collection from remote sites (article) 8/55
NOAA water level measurement system (article) 5/29
Titanic, French to recover artifacts 8/9
TOAS, sidescan sonar for AUVs (article) 3/31
TOGA 7/17, 11/44, 12/7
TOGA, project office moves to Switzerland 8/73
Tomography, acoustic (article) 1/53
TOPEX/Poseidon 1/32, 2/7, 11/43
NORDA oceanographer selected for team 11/66
Torpedo,
target-practice converted to research (article) 12/37
Tourist submersibles (article) 12/19
Tourist submersibles,
history & market analysis (article) 12/33
Transit satellite, reaches age 20 ..... 8/64
Transportation (marine), resource status 8/10
Tropical Oceans/Global Atmosphere (TOGA) 1/12
Tsunami warning system 12/51
Turtle excluder devices, required on shrimpers 8/73
Twin Drill SWATH vessel (Beebe Project) 12/10

U

Under Seas Defense '87, conference announced 3/46
Undersea habitat, NOAA's "Aquarius" (article) 8/15
Undersea warfare,
NORDA R&D activities (article) 1/30
Soviets narrowing lead 5/45
Underwater acoustics, arctic ice canopy (article) 7/22
Underwater communications systems (article) 5/10
Underwater contractors, market analysis (article) 1/20
Underwater tools, NavSea approval 1/60
Underwater welding standards 1/58
USD '87,
(Under Seas Defense) (conference preview) 10/25

W

Waste assimilation, EEZ 6/21
Water level measurement system, NOAA contract 9/53
Water level measurement (article) 5/29
Water quality monitoring instruments (article) 10/10
Water Resources Development Act 1/27
Weather, annual winter forecast 1/77
Weather system, automated 1/60
Whales, satellite tracking provides new data 11/73
Whaling, Japanese hunting for research 5/49
WiFS 1/35
Wilson, RAdm. John R. Jr.,
selected to replace Mooney as CNR 9/9
Winches & cranes, applications (article) 7/19
World Climate Research Program (WCRP) 11/43
World Ocean Circulation Experiment
(WOCE) 1/25, 11/43, 12/7

Y

Year of the Ocean, a perpetual event? (editorial) 10/7

Z

Zooplankton, measurement technique 1/66

Part Two
AUTHORS

Bailey, Sam 12/37
Baker, Dr. D. James 5/65
Beaumarriage, Dr. Donald C. 5/27
Beck, Frederic E. 11/89
Bentley, Douglas 7/29
Berian, Albert G. 6/47
Bettenberg, William D. 1/27
Booda, Larry L. 1/7, 1/30, 3/7, 3/42, 4/29, 5/27, 6/7, 6/42 7/7, 8/7, 8/23, 11/7, 11/10
Busby, R. Frank 2/10, 12/33
Calio, Anthony J. 1/11
Caplan, Norman 6/38
Carter, Dr. William E. 11/39
Champ, Dr. Michael A. 6/10
Chandler, Karen E. 9/35
Clark, Andrew M. 2/39
Clark, Michael K. 1/50, 4/43, 4/39, 5/14 5/39, 7/19, 7/47, 8/10, 8/37, 8/51 9/19 10/19, 10/33, 10/37, 11/47, 11/53, 12/56
Corell, Dr. Robert W. 8/41
Cotton, Dr. W. Rodney 9/10
Cruickshank, Dr. Michael J. 6/61, 8/77, 10/70
Cyr, Reg 3/31
Diamante, Dr. John M. 11/39
Donaldson, Dr. Thomas 11/35
Duedall, Dr. Iver 6/34
Dunn, Dr. Stanley 6/37
Earle, Dr. Sylvia A. 2/28
Eastin, Keith E. 3/69
Edwards, Randy 3/37
Eppler, James P. 5/23
Fossum, Bjorn A. 10/15
Frisbie, F. Richard 9/23
Gaffoglio, Carl J. 6/43
Galerne, Andre 1/20
Garner, Stuart 10/10
Geer, Ron 1/24
Giannini, Dr. Gabriel M. 9/41
Glanville, Gregory H. 9/10
Graham, David M. 1/33, 1/46, 2/7, 2/23 2/28, 3/21, 3/35, 4/7, 5/7, 5/10, 8/23, 8/41 9/7, 9/31, 10/7, 10/27, 11/29, 12/7, 12/28, 12/29
Greenberg, Jerry 1/16, 4/10
Greifeneder, W. Bruno 7/14
Griffin, Timothy 4/19
Gross, Dr. M. Grant 1/25
Hayes, C. William 3/27
Heiberg III, LTG E. R. (USA) 1/26
Hillier, Graham 8/55
Huff, John R. 4/73
Hughes, E. Wayne 9/23
Inouye, Sen. Daniel K. 6/36
Iorns, Martin E. 4/35
Jackson, Dr. Mervyn 12/23
Janca, Robin Woodward 12/19
Jones, Rep. Walter B. 1/21
Kalvaitis, A. N. 8/15
Le Mehaute, Dr. Bernard 12/69
Logan, Kevin P. 3/17
Lohanick, Dr. Alan 5/23
Lou, Dr. Jack Y.K. 1/28
Mack II, J. Curtis 7/16
MacLean, Dr. Colin S. 12/23
Mallinger, Ed 2/44
Mann, Dr. Daniel 12/23
Matthews, Charles D. 1/19, 2/73
Mays, Dr. James 5/33
McAllister, Dr. Ray 6/37
McClure, Alan C. 4/33
McManus, Roger E. 10/81
Miller, Joyce 3/37
Moffitt II, H. A. 1/41
Mooney Jr., RAdm. J.B. "Brad" 1/14
Mulcahy, Michael 8/30
Newman, Bruce 7/14
Oakey, Dr. Neil S. 7/14
Omelczenko, Victor 1/22
Pagano, Susanne S. 1/16, 4/10
Peters, Eddy J. 12/19
Pollack, Hy 10/29
Posey, Dr. Joe W. 7/22
Raimondo, Natale 4/24
Ramsdale, Dr. Dan J. 7/22
Rechnitzer, Dr. A.B. 12/10, 12/33
Rideout, Marc 10/31
Scala, Dr. E. Peter 7/29, 7/30
Scherer, Dr. Wolfgang D. 5/29, 11/39
Schilling, Tyler 2/39
Schneider, Rep. Claudine 1/37
Seeholtz, RAdm. John R. "Rich" (USN) 1/32
Serafin Jr., Lt. Michael (USN) 3/10
Skop, Dr. Richard A. 8/89
Silver, Andrew 3/37
Slade, David C. 1/81
Smits, Kuno 2/16
Snow, James W. 7/10
Spilhaus, Dr. Athelstan 11/19
Strickland, Richard 12/37
Suh, Dr. Nam P. 6/73
Takahashi, Patrick K. 6/22
Tyler, Dr. Robert 3/37
Vickery, Keith 4/19
Vine, Allyn 6/33
Wardell, Dr. John 9/10
Walsh, Dr. Don 9/73
Warner, Dr. Jon 3/31
Weicker, Sen. Lowell P. 7/73, 8/16
Welch, Dr. James P. 5/23
Wildman, Robert D. 1/22
Williams, Debra S. 1/34
Williams, Richard J. 4/19
Won, Dr. I. J. 2/16
Wyatt, Keith 7/43, 10/41
Yuen, Dr. Paul C. 6/20